

FIG. 1A

100 GTCAAGTGTATTACGTGACAGGAGACTGGCCGCTCGGCTCAGGACTGGGATTAGCGGGCTCTGCTCAACCCCGCGGCTTTTACATTAGGAGTGAGTG6  
199 GGGAGAGTCTAGGATTCTAGTGAAGAGTGACAGCGCTTGGTGGACTTTGGGACCCTCGTGAAGCTCTTCTGCTTGGGAGCTGAGACTTGCATGCC ATG  
M  
I  
274 GAA CAC CCC CTC TTT GGC TGC CTG CGC AGC CCC CAC GCC ACA GCG CAA GGC TTG CAC CCC TTC TCG CAG TCT TCT  
26 E H P L F G C L R S P H A T A Q G L H P F S Q S S  
349 CTG GCC CTC CAT GGA AGA TCT GAC CAC ATG TCC TAC CCC GAA CTC TCC ACA TCT TCC TCG TCT TGC ATA ATC GCG  
51 L A L H G R S D H M S Y P E L S T S S S C I I A  
424 GGA TAC CCC AAT GAG GAG GGC ATG TTT GCC AGC CAG CAT CAC AGG GGG CAC CAC CAC CAC CAC CAC CAT  
76 G Y P N E E G M F A S Q H H R G H H H H H H H  
499 CAC CAC CAC CAG CAG CAG GCT CTG CAA AGC AAC TGG CAC CTC CCG CAG ATG TCC TCC CCG CCA AGC  
101 H H H Q Q Q Q H Q A L Q S N W H L P Q M S S P P S  
574 GCG GCC CGG CAC AGC CTT TGC CTG CAG CCT GAT TCC GGA GGG CCC CCG GAG CTG GGG AGC AGC CCT CCG GTC CTC  
126 A A R H S L C L Q P D S G G P P E L G S S P P V L  
649 TGC TCC AAC TCT TCT AGC CTG GGC TCC AGC ACC CCG ACC GGA GCC GCG TGC GCA CCA AGG GAT TAT GGC CGT CAA  
151 C S N S S L G S S T P T G A A C A P R D Y G R Q  
724 GCG CTG TCA CCC GCA GAA GTG GAG AAG AGA AGT GGC AGC AAA AGA AAA AGC GAC AGT TCA GAT TCC CAG GAA GGA  
176 A L S P A E V E K R S G S K R K S D S D S Q E G  
799 AAT TAC AAG TCA GAA GTG AAC AGC AAA CCT AGG AAG GAA AGA ACA GCT TTC ACC AAA GAG CAA ATC AGA GAA CTT  
201 N Y K S E V N S K P R K E R T A F T K E Q I R E L  
874 GAG GCA GAG TTC GCC CAT AAC TAT CTG ACC AGA CTG AGA AGA TAT GAG ATA GCG GTG AAC CTA GAC CTC ACT  
220 E A E F A H H N Y L T R L R R Y E I A V N L D L T

MATCH TO FIG. 1B

MATCH TO FIG. 1A

GAA AGA CAG GTG AAA GTG TGG TTC CAG AAC AGG AGA ATG AAG TGG AAG CGG GTC AAG GGG GGA CAA CAA GGA GCT 949  
E R Q V K V N F Q N R R R H K N K R V K G G Q Q G A 251

GCA GCC CGA GAA AAG GAA CTG GTG AAT GTG AAA AAG GGA ACA CTT CTT CCA TCA GAG CTG TCA GGA ATT GGT GCA 1024  
A A R E K E L V N V K K G (T) L L P S E L S G I G A 276

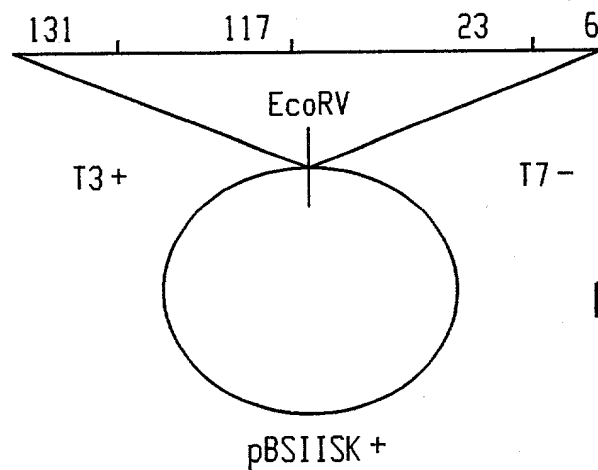
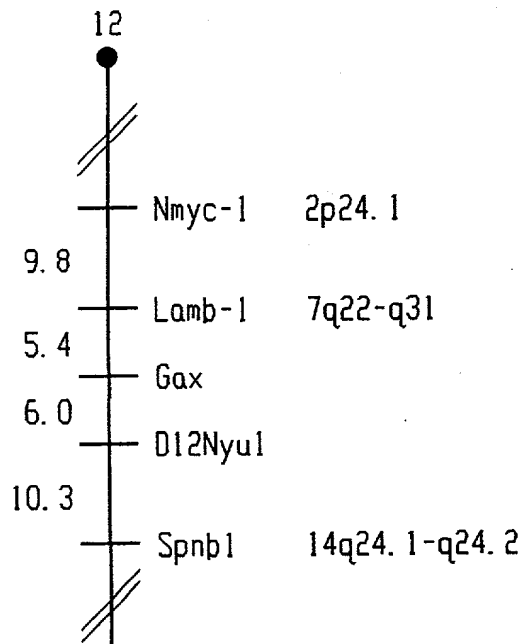
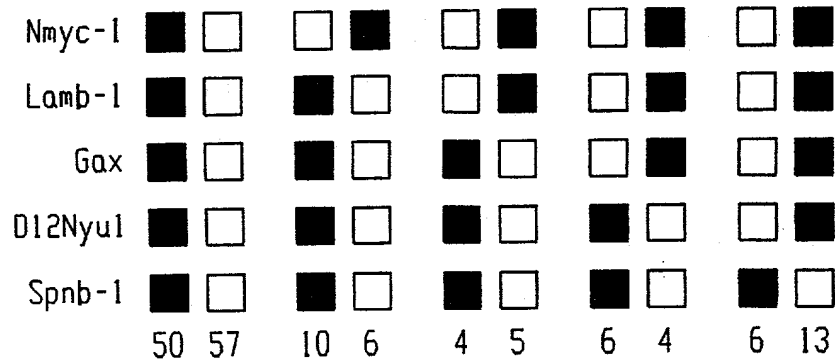
GCC ACC CTC CAG CAG ACA GGG GAC TCA CTA GCA AAT GAC GAC AGT CGC GAT AGT GAC CAC AGC TCT GAG CAC GCA 1099  
A T L Q Q T G D S L A N D D S R D (S) D H S S E H A 301

CAC ITA TGA TACAACAGAGACCCAGCTCCGTTCTCAGGAAAGCACCATTGTGATGGCAAACTCACCCCAACATCGTTTACATGGCAGATGACTGTG 1196  
H L STOP 303

GCAGTGTTCCTTAATAATAAACCAGG6CATCTCAAGTCIGTTTCTCATGATTGATAGAAGGTTTACACTAAGTGGCTCTTTATTGAAGATGCTTCCAC 1296  
AGTGAATTTGGAGAAAGTGAACATATCTAAATATACTTGTTCCTTATATGACAGAGAGGGAGATGAATGTTTGGCTTGGCTTGGCACTGAAAAATTAAATTG 1396  
CTACCAAGAGCAAACTCGGTAAGACATTTTGACTCAAGTTGTCCTCAGAGTGAAGATGTTATAGAAATGCTTTGAACATTCAGTTGTACCAGGTCATGT 1496  
GTGTGACACTGGGCAGGATTTTGCCTTGGCTGACATGAACCTTAACTGCTATCAAGTTAACCCTATGAATAGTTTATCTTGAACAGCCACAGTGCCTG 1596  
AAATCACCAGTGGATATAAATGAACATGAATTCGTATATATTACTCCTAAGTCAATTTCCCTGCTTCACTAATTTTAGCAAAATGCAATTCATATTAGC 1696  
TGA TGAATA TAGGCTTCCCGTGGACAAA TGCAGCCAGCTTCTTGTA TTTTATACATTTTTTTTGTGAGTCAAGACATCAGTATGTGCTTACTTGTGT 1796  
CAAGTAGAGGAAATGCAGTAGAGTCTGATAGGACATATTTCTTGGTACCACAGACAAAACAAATCTTCTGTTGGCATTGACTATCAACTGCTGCGAGATACAT 1896  
TAGAGACACACCTAGCCCCCTCCAGCCTCCCTCTGTTATCGCTCGAAGACATTAGCGTCATAGGCAAGTAGTTACCTTGGCAAAATGAGTCTTGTGTG 1996  
CAGATGCTGATTTTGTATCTTTAAACIGTTAATGGTATGTGCTGCTTCAAGTTAACAGGGGAAAAGAGATTCTTCCICATTTGTTATGATACAAAACCCCA 2096  
AGTGCCAAAACAANGCTAGTCTTCAAGGGATAGATGAGAAACTGAATGCTGACAAAGTAGACTCAGCGAAAATACATTATTTTTCAGAGGCTGTGTATTTC 2196  
ATGCAGTACAAGTCTTGTATTTTGTAAAAAAAAGTTAAATANAATG 2244

FIG. 1B

**FIG. 2**



**FIG. 4**

**FIG. 3**

GTCTTCTACCTGGAAACCGAAACTTGCATGCT ATG GAA CAC CCG CTC TTT GGC TGC CTG CGC AGC CCT CAC GCC ACG GCG CAA 83  
M E H P L F G C L R S P H A T A Q 17  
GGC TTG CAC CCG TTC TCC CAA TCC TCT CTC GCC CTC CAT GGA AGA TCT GAC CAT ATG TCT TAC CCC GAG CTC TCT 158  
G L H P F S Q S L A L H G R S D H M S Y P E L S 42  
ACT TCT TCC TCA TCT TGC ATA ATC GCG GGA TAC CCC AAC GAA GAG GAC ATG TTT GCC AGC CAG CAT CAC AGG GGG 233  
T S S S C I I A G Y P N E E D M F A S Q H H R G 67  
CAC CAC CAC CAC CAC CAC CAT CAC CAC CAC CAG CAG CAG CAG CAG GCT CTG CAA ACC AAC TGG CAC CTC 300  
H H H H H H H H H Q Q Q Q H Q A L Q T N W H L 92  
CCG CAG ATG TCT TCC CCA CCG AGT GCG GCT CGG CAT AGC CTC TGC CTC CAG CCC GAC TCT GGA GGG CCC CCA GAG 383  
P Q M S S P P S A A R H S L C L Q P D S G G P P E 117  
TTG GGG AGC AGC CCG CCC GTC CTG TGC TCC AAC TCT TCC AGC TTG GGC TCC AGC ACC CCG ACT GGG GCC GCG TGC 450  
L G S S P P V L C S N S S L G S S T P T G A A C 142  
GCG CCG GGG GAC TAC GGC CGC CAG GCA CTG TCA CCT GCG GAG GCG GAG AAG CGA AGC GGC GGC AAG AGG AAA AGC 533  
A P Q D Y G R Q A L S P A E A E K R S G G K R K S 167  
GAC AGC TCA GAC TCC CAG GAA GGA AAT TAC AAG TCA GAA GTC AAC AGC AAA CCC AGG AAA GAA AGG ACA GCA TTT 600  
D S S D S Q E G N Y K S E V N S K P R K E R T A F 192  
ACC AAA GAG CAA ATC AGA GAA CTT GAA GCA GAA TTT GCC CAT CAT AAT TAT CTC ACC AGA CTG AGG CGA TAC GAG 683  
T K E Q I R E L E A E F A H H N Y L T R L R Y E 217  
ATA GCA GTG AAT CTG GAT CTC ACT GAA AGA CAG GTA AAA GTC TGG TTC CAA AAC AGG CGG ATG AAG TGG AAG AGG 758  
I A V N L D L T E R Q V K V W F Q N R R M K K R 242  
GTA AAG GGT GGA CAG CAA GGA GCT GCG GCT CGG GAA AAG GAA CTG GTG AAT GTG AAA AAG GGA ACA CTT CTC CCA 833  
V K G G Q Q G A A A R E K E L V N V K K G T L L P 267  
TCA GAG CTG TCG GGA ATT GGT GCA GCC ACC CTC CAG CAA ACA GGG GAC TCT ATA GCA AAT GAA GAC AGT CAC GAC 908  
S E L S G I G A A T L Q Q T G D S I A N G D S R D 292  
AGT GAC CAC AGC TCA GAG CAC GCG CAC CTC TGA 941  
S D H S S E H A H L \* 302

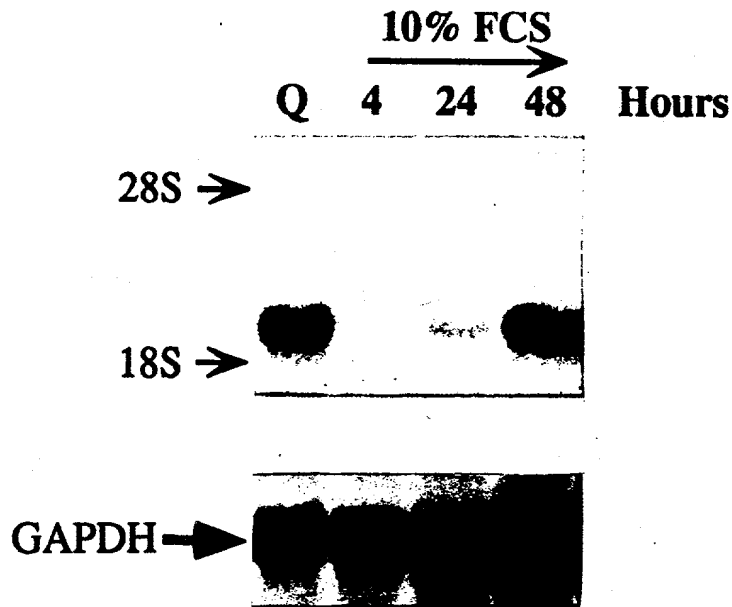


FIG. 5A

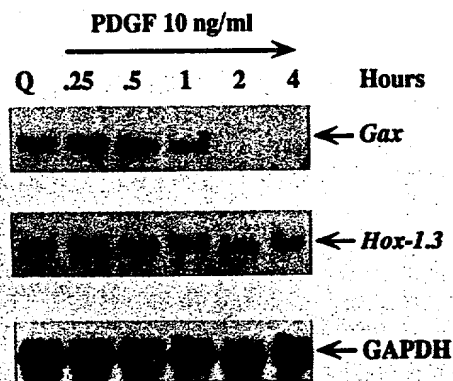
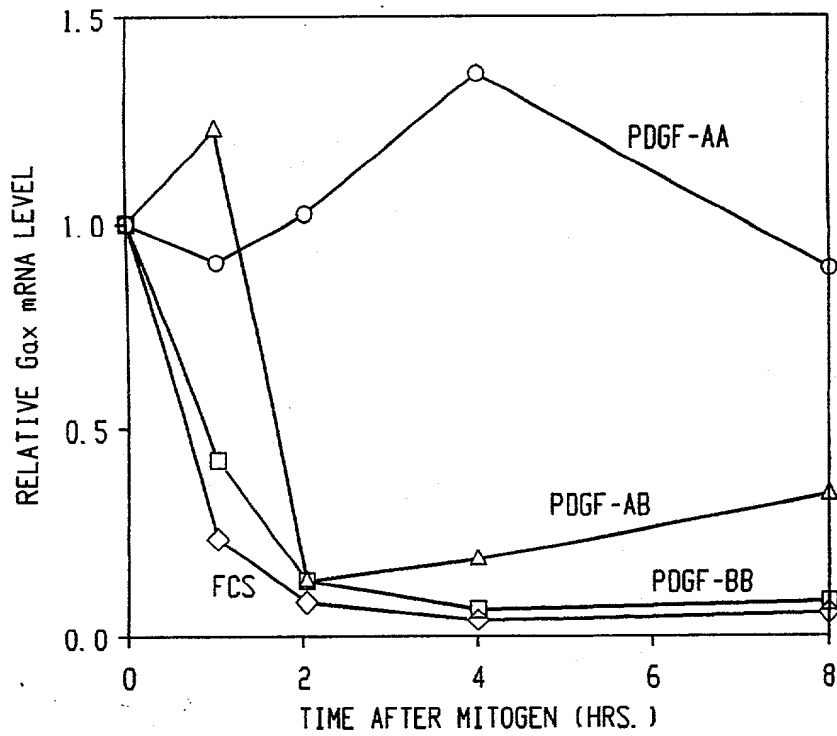
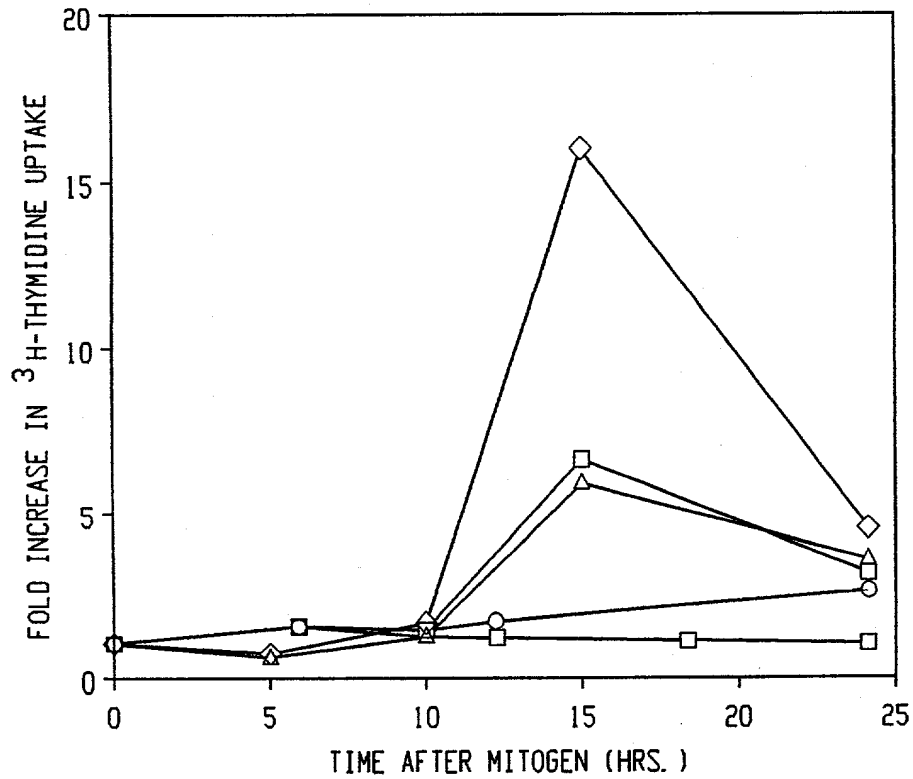


FIG. 5B



**FIG. 6**



**FIG. 7**

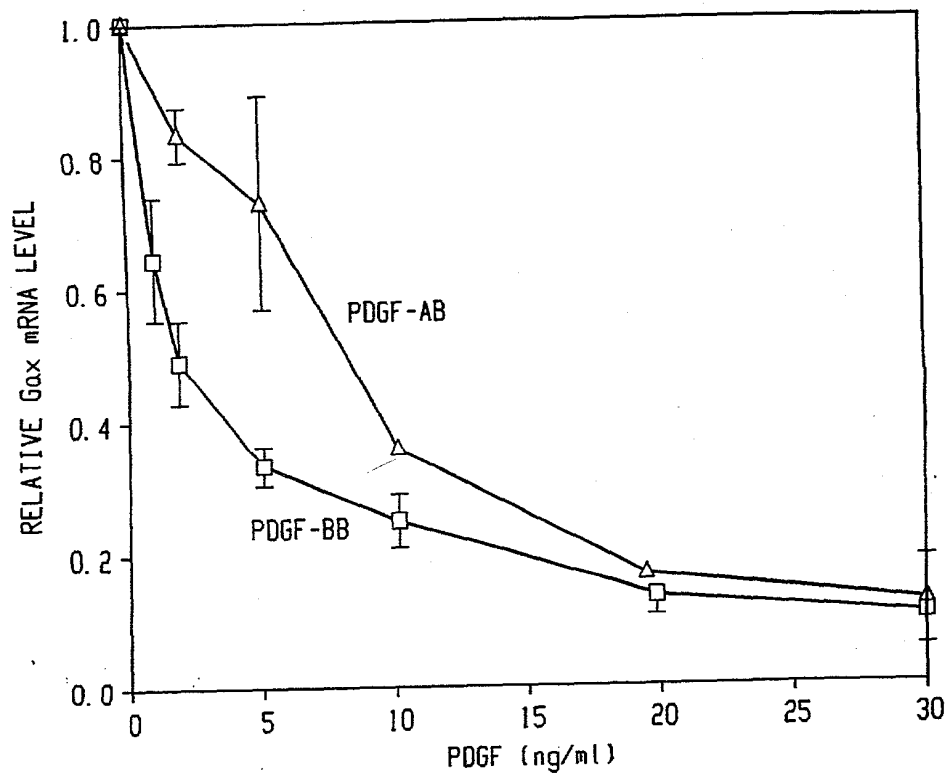


FIG. 8

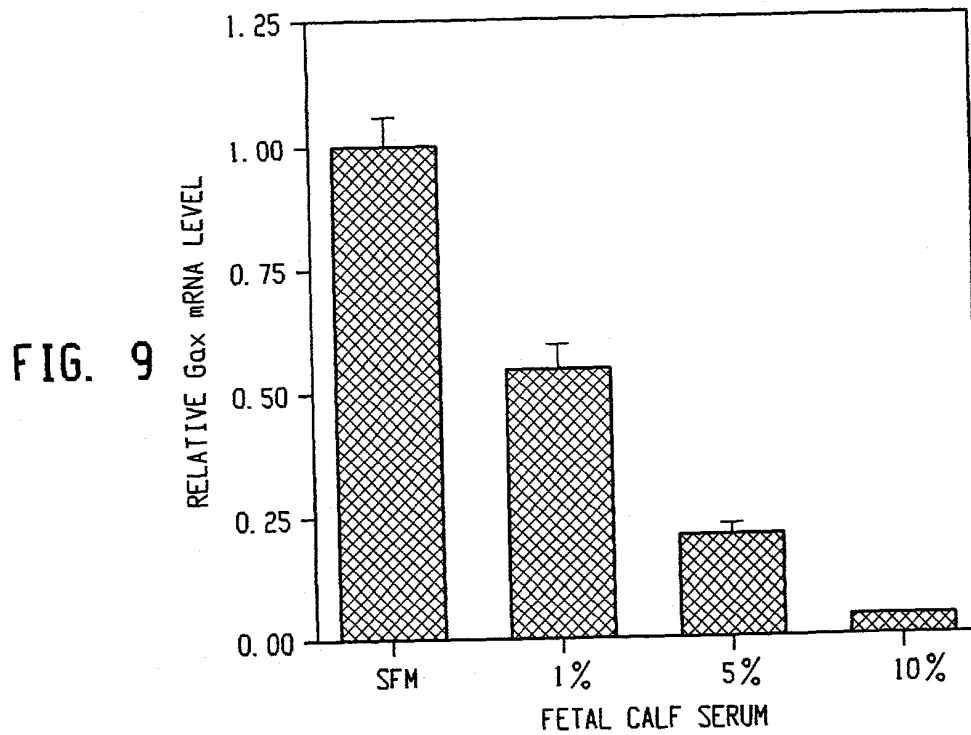


FIG. 9

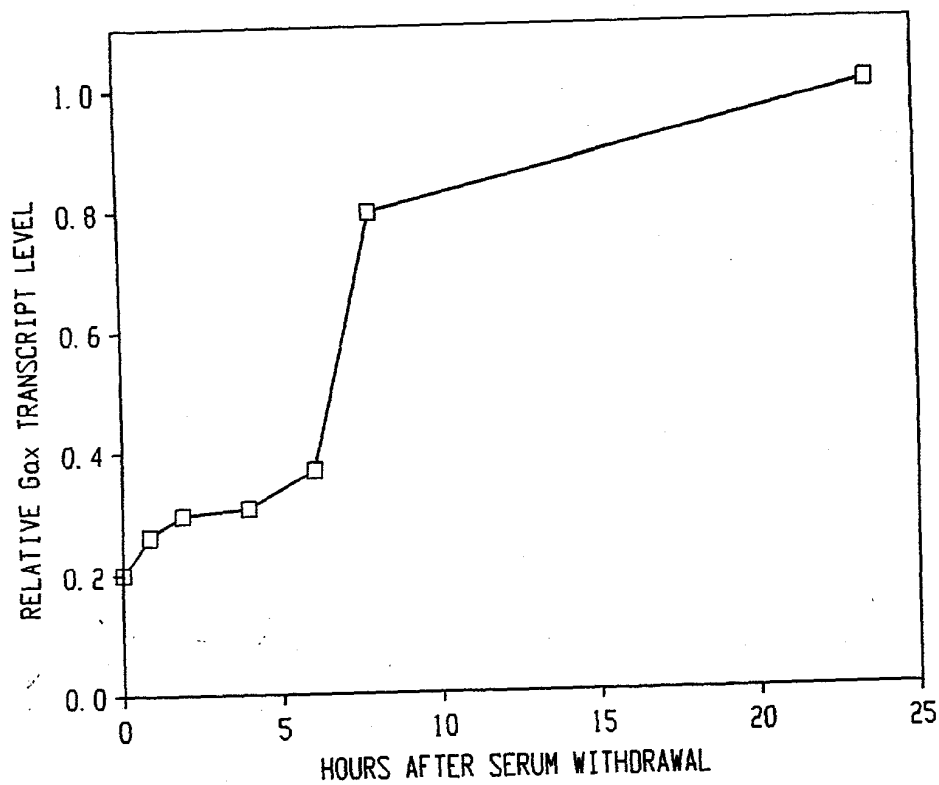


FIG. 10

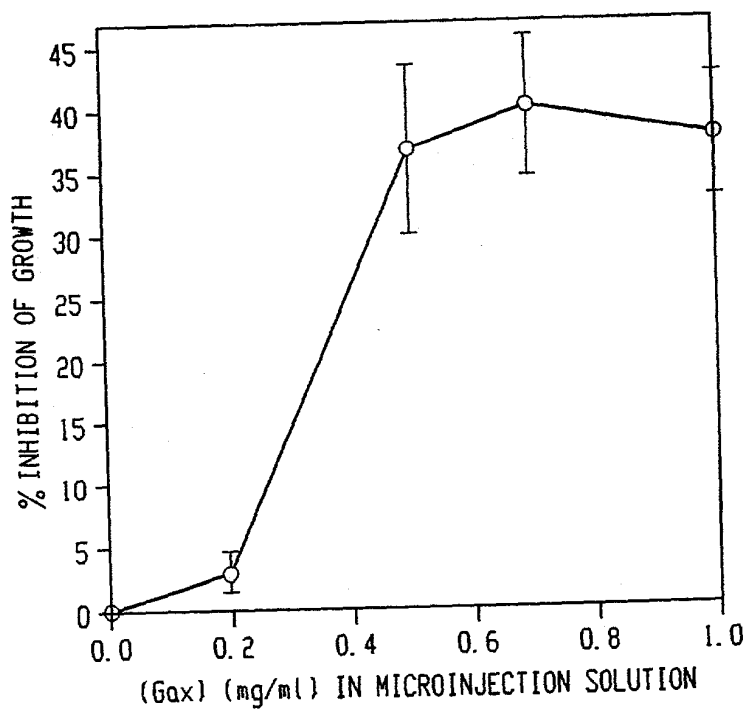


FIG. 11

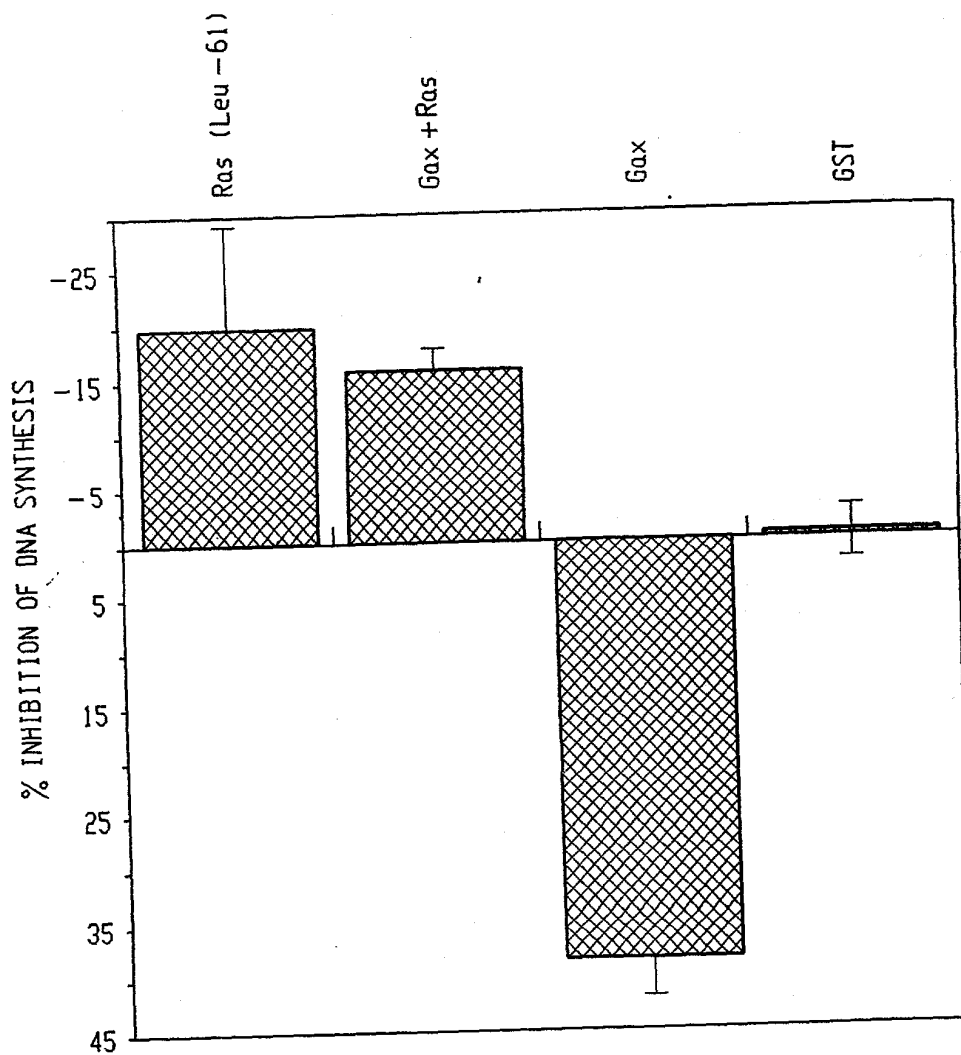


FIG. 12

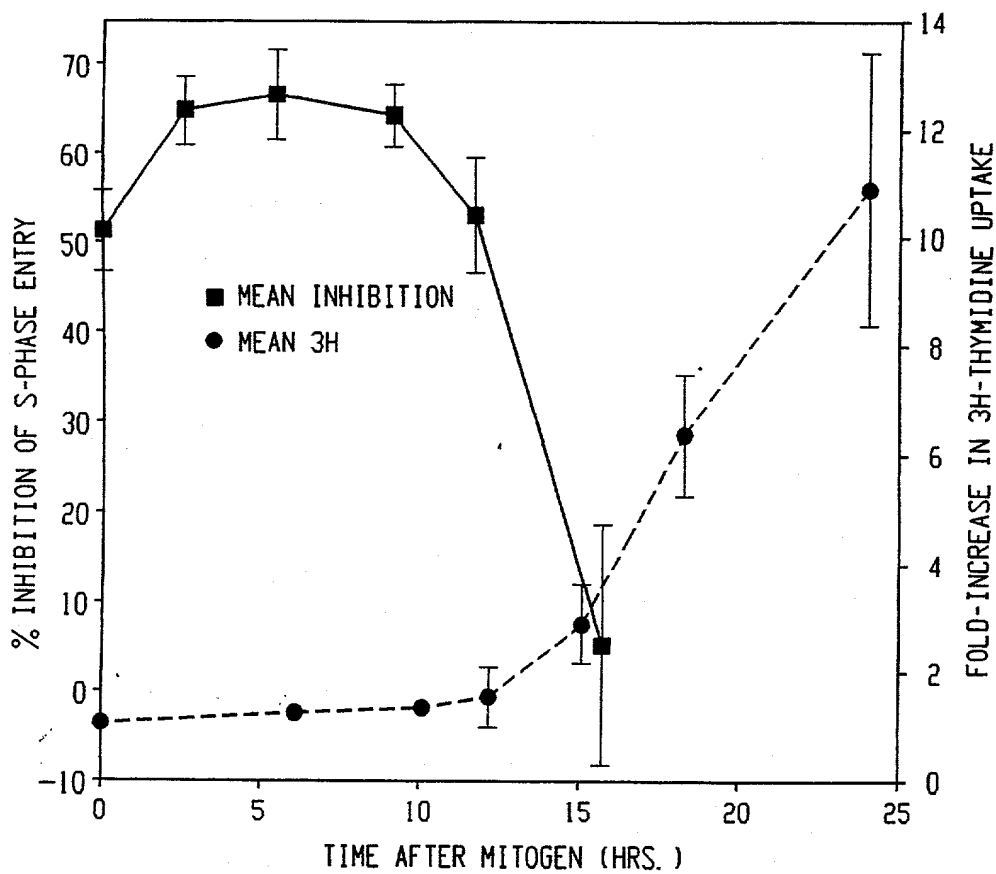


FIG. 13

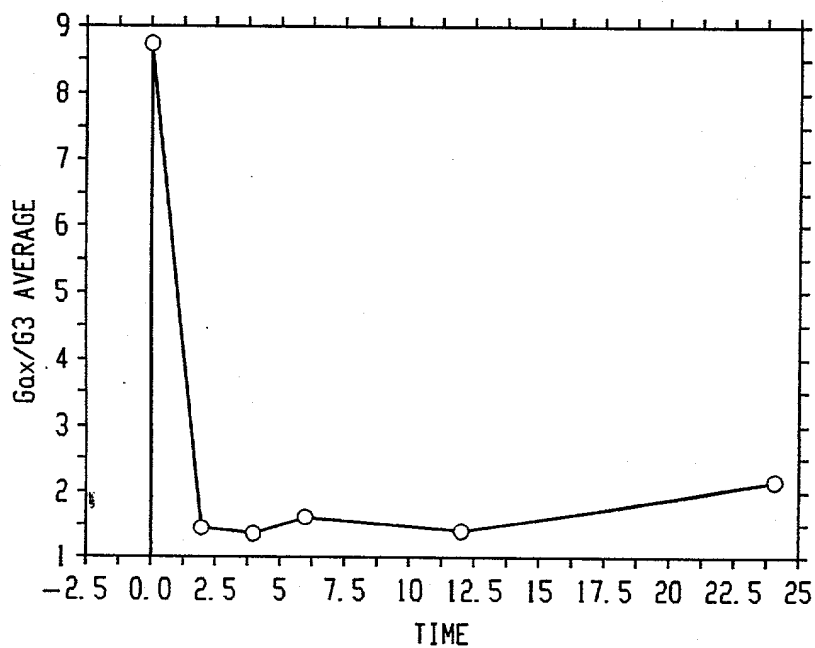


FIG. 14